

AvSPORT



OF LOCK HAVEN

***A NEW FLIGHT SCHOOL AT
PIPER MEMORIAL AIRPORT
LOCK HAVEN, PA***

“IF YOU CAN DRIVE, YOU CAN FLY!”

AvSPORT



OF LOCK HAVEN

OUR VISION:

***AVSPORT ENVISIONS A GENERAL AVIATION
RENAISSANCE, FACILITATED BY QUALITY
TRAINING OF SPORT PILOTS AND THE
AVAILABILITY OF MODERN LIGHT SPORT
AIRCRAFT.***

AvSPORT



OF LOCK HAVEN

OUR MISSION

***AVSPORT ENHANCES AVIATION SAFETY
AND ENJOYMENT, BY OFFERING:***

A RIGOROUS FLIGHT TRAINING CURRICULUM

EXPERIENCED, PROFESSIONAL CERTIFIED FLIGHT INSTRUCTORS

WELL MAINTAINED ADVANCED LIGHT SPORT AIRCRAFT

MODERN AND ACCESSIBLE INSTRUCTIONAL MATERIALS

INDIVIDUALIZED INSTRUCTION

AN AFFORDABLE AVIATION EXPERIENCE

AvSPORT



OF LOCK HAVEN

***SPECIALIZING IN SPORT PILOT TRAINING
USING MODERN LIGHT SPORT AIRCRAFT***



AvSPORT



OF LOCK HAVEN

LSA RESTRICTIONS:

2 SEATS MAXIMUM

FIXED LANDING GEAR

FIXED PITCH PROPELLER

1320 # MAX GROSS WEIGHT

45 KNOT MAX STALL SPEED

120 KNOT MAX CRUISE SPEED

AvSPORT



OF LOCK HAVEN

SPORT PILOT LIMITATIONS:

DAYLIGHT HOURS ONLY

3 MILE MINIMUM VISIBILITY

FLY WITHIN SIGHT OF GROUND

VISUAL FLIGHT RULES ONLY

IN UNCONGESTED AIRSPACE

10,000 FT MAXIMUM ALTITUDE

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OF LOCK HAVEN

SPORT PILOT REQUIREMENTS:

17 YEARS MINIMUM AGE

3RD CLASS MEDICAL CERTIFICATE

-OR- VALID US DRIVERS LICENSE

15 HOURS OF DUAL INSTRUCTION

5 HOURS OF SOLO FLIGHT

PASS WRITTEN & FLIGHT TESTS

AvSPORT



OF LOCK HAVEN



MEET OUR LIGHT SPORT TRAINER

AvSPORT



OF LOCK HAVEN

MEET OUR LIGHT SPORT TRAINER:

MODERN, ALL METAL AIRFRAME

ROBUST TRICYCLE LANDING GEAR

100 HP ROTAX ENGINE

FULLY INSTRUMENTED

FULLY LSA COMPLIANT

METICULOUSLY MAINTAINED

AvSPORT



OF LOCK HAVEN

MEET OUR LIGHT SPORT TRAINER:



AvSPORT



OF LOCK HAVEN

MEET OUR CHIEF FLIGHT INSTRUCTOR:



AvSPORT



OF LOCK HAVEN

MEET OUR CHIEF

FLIGHT INSTRUCTOR:

- *PROF. H. PAUL SHUCH, CFII*
- *AIR FORCE VETERAN, COMMERCIAL PILOT,
RETIRED COLLEGE PROFESSOR*
- *CERTIFIED FLIGHT INSTRUCTOR, AIRPLANE
SINGLE ENGINE LAND & INSTRUMENT*
- *PH.D. IN AIR TRANSPORTATION ENGINEERING
(UNIVERSITY OF CALIFORNIA, BERKELEY)*
- *STARTED FLYING IN 1961*
- *37 YEARS OF TEACHING EXPERIENCE*
- *FAA SAFETY TEAM LEAD REPRESENTATIVE*

AvSPORT



OF LOCK HAVEN

TRAINING MATERIALS:

FLIGHT BAG

PILOT LOGBOOK

PILOT HANDBOOK

FLIGHT COMPUTER

NAVIGATION PLOTTER

SPORT PILOT SYLLABUS

SPORT PILOT TRAINING RECORD

AIRMAN'S INFORMATION MANUAL

FEDERAL AVIATION REGULATIONS

SPORT PILOT FLIGHT MANEUVERS

SPORT PILOT FAA KNOWLEDGE TEST

PRACTICAL TEST PREPARATION BOOK

KNOWLEDGE TEST PREP SOFTWARE DOWNLOAD



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OF LOCK HAVEN

MODULAR INSTRUCTION:



Standard Training Packages:

- Pay As You Go
- *A Taste of Freedom*tm Discovery Flight
- *Gateway to the Sky*tm Introductory Lesson
- *Up, Up, and Away*tm Pre-Solo Module
- *Out On Your Own*tm Post-solo Module
- See details about our flight instruction fees

The Fine Print: *Certain weight, height, and health restrictions apply. Persons weighing more than 200 pounds can be accommodated only by prior arrangement. We regret that our aircraft cannot safely carry passengers weighing in excess of 250 pounds. All flight participants will be asked to sign our standard Liability Waiver form.*

AvSPORT



OF LOCK HAVEN

UP, UP, AND AWAY!

PRE-SOLO MODULE:

YOUR OWN SPORT PILOT KIT

9.5 HOURS OF DUAL INSTRUCTION

0.5 HOURS OF SUPERVISED SOLO

16 HOURS OF GROUND TRAINING

AvSPORT



OF LOCK HAVEN

UP, UP, AND AWAY!

PREREQUISITES:

BE AT LEAST 16 YEARS OF AGE

HAVE VALID US DRIVER'S LICENSE

SHOW PROOF OF US CITIZENSHIP,

OR OBTAIN TSA APPROVAL

AvSPORT



OF LOCK HAVEN

UP, UP, AND AWAY!

COMPLETION STANDARDS:

BE FULLY QUALIFIED TO OPERATE

SAFELY IN THE LOCAL PATTERN

BE READY TO PASS WRITTEN EXAM

HAVE EXPERIENCED THE THRILL

OF YOUR FIRST SOLO FLIGHT

AvSPORT



OF LOCK HAVEN

OUT ON YOUR OWN!

POST-SOLO MODULE:

6.5 HOURS OF DUAL INSTRUCTION

5.5 HOURS OF SOLO FLIGHT

13.5 HOURS OF INDIVIDUALIZED

GROUND INSTRUCTION

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OF LOCK HAVEN

OUT ON YOUR OWN!

PREREQUISITES:

COMPLETE OUR PRE-SOLO MODULE

ENJOY YOUR FIRST SOLO FLIGHT

PASS THE FAA KNOWLEDGE TEST

INSTRUCTOR RECOMMENDATION

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OF LOCK HAVEN

OUT ON YOUR OWN!

COMPLETION STANDARDS:

MEET FAA TRAINING REQUIREMENTS

BE FULLY QUALIFIED AS PIC FOR

LOCAL AND CROSS-COUNTRY FLIGHT

BE READY TO PASS FAA FLIGHT TEST

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OF LOCK HAVEN

FORMAL CURRICULUM:

AvSPORT+

Flight Training Curriculum

Sport Pilot, Airplane Single Engine Land

Following is a general outline of the elements included in flight training for the Sport Pilot Certificate through AvSport of Lock Haven. The flight student will also study for the FAA Knowledge Examination with the assistance of his or her instructor. AvSport will recommend an online, CD, or DVD course for students to use in preparation for the Knowledge Examination.

1.0 AIRCRAFT FAMILIARIZATION

- 1.01 Introductory Flight
- 1.02 Preflight Inspection and Aircraft Servicing
- 1.03 Obtaining Weather information & Using Good Weather Judgment
- 1.04 Cockpit Familiarity and Required Paperwork
- 1.05 Proper Use of Checklists
- 1.06 Engine Start Procedures (Hot & Cold)
- 1.07 Taxi and Crosswind Taxi
- 1.08 Pre-Take-off Checks including Engine Run-Up
- 1.09 Normal Takeoff and Pattern Departure
- 1.10 Climbs, Descents, Turns, and Straight & Level Flight
- 1.11 Cruise Speed & Approach Configurations
- 1.12 Use of Elevator Trim
- 1.13 30° Banked Turns, including spiral avoidance
- 1.14 Slow Flight with and without Flaps

2.0 PRE - SOLO INSTRUCTION

- 2.01 Stalls - in straight and turning flight, in both clean and approach configurations
- 2.02 Spin recognition, avoidance, and recovery
- 2.03 Simulated Emergency Landings
- 2.04 Ground Reference Maneuvers
 - a) rectangular patterns
 - b) S-turns
 - c) turns about a point
- 2.05 Pattern Entry & Proper Landing Pattern Procedures
- 2.06 Stabilized approach technique
- 2.07 Flare & Touch-Down Techniques
- 2.08 Recovery from Bad Approach/Landing and Go-Around Procedures
- 2.09 Training SOPs, FAR 91, Local Airport Rules & Practices
- 2.10 Comm Radio usage and communication phraseology
- 2.11 Transponder usage
- 2.12 Practice Area Familiarization
- 2.13 Pre-solo quizzes on Federal Aviation Regulations and training aircraft specifics

3.0 SOLO FLIGHT

- 3.01 Pre-solo standardization check
- 3.02 Supervised Solo Flights
- 3.03 SOLO PRACTICE (With Weather and Wind Restrictions)

4.0 POST - SOLO INSTRUCTION

- 4.01 Crosswind Take-off and Landing Techniques & Practice
- 4.02 Short Field & Soft-Field Take-off and landing Techniques & Practice
- 4.03 Slips to landings (No Flaps)
- 4.04 Accelerated Stall Demonstration
- 4.05 Emergency Procedures

5.0 CROSS-COUNTRY FLIGHT

- 5.01 Review of AIM & FAR
- 5.02 Pilotage & Dead-Reckoning Techniques
- 5.03 VFR into IMC - the 180° turn
- 5.04 Dual Cross-Country Practice
- 5.05 Solo Cross-Country Flight Preparation
- 5.06 SOLO CROSS-COUNTRY FLIGHTS

6.0 FAA CHECK RIDE

- 6.01 Dual preparation for FAA Check ride
- 6.02 Preparation for Practical Test flight and oral examinations
- 6.03 Review of Practical Test Standards
- 6.04 Recommendation Flight
- 6.05 SPORT PILOT FAA CHECK RIDE

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CHECKLISTS:



Aircraft Specifications Checklist

When transitioning to a new aircraft, fill in the blanks with reference to the Pilot's Op

Make/Model	Registration
Usable Fuel Capacity	Gals _____ Lb _____
Correct Fuel Grade	_____
Color of Fuel	_____
Engine(s) Oil Capacity	_____
Oil Grade and Type	_____
Oil Level min/max	_____
Max. Takeoff Weight	_____
Max. Landing Weight	_____
Empty Weight	_____
Useful Load / Payload	_____
Speeds:	
V _{SO}	_____
V _{S1}	_____
V _X	_____
V _Y	_____
V _{FE}	_____
V _A	_____
V _{NO}	_____
V _{NE}	_____
V _{ROTATE}	_____
V _{APPR}	_____
V _{GLIDE}	_____
V _{MC}	_____
V _{ASE}	_____
V _{VSE}	_____
V _{SSE}	_____
V _{LE}	_____
Max. X-Wind Component	_____



FLIGHT REVIEW CHECKLIST

- Pilot and Aircraft Certificates and Documents
- Flight Planning
- Taxiing
- Use of Checklist
- Collision Avoidance Techniques
- Normal Takeoffs
- Crosswind Takeoffs
- Straight-and-Level Flying
- Ground Reference Maneuvers
- Slow Flight
- Stall Recognition
- Stall Recovery
- Attitude Instrument Flying
 - Straight and Level
 - Climbs, Turns and Descents
 - Unusual Attitude Recovery
- Landings
 - Normal
 - Crosswind
 - Soft field
 - Short field
- Use of:
 - Trim
 - Communication Radios
 - Navigation Radios
- Pilotage
- Multengine:
 - Engine-Out Procedures
 - Vmc Demonstrations
 - Engine failure on Takeoff
- Aircraft Systems
 - Normal Operations
 - Emergency Operations
- Smoothness on Controls
- Engine Shutdown and Parking
- Debrief

Weight and Balance Worksheet for N810EV

STATION	WEIGHT	ARM	MOMENT
Plane	738.6	10.43	7704
Pilot		21.45	
Copilot		21.45	
Fuel @ 6#/Gal Max usable 31.2 gal		26.75	
Baggage Max 55 pounds		42.65	
Total:			
CG =	(Max gross wt 1268#)		(Total Moment / Total Weight)

1. Enter the weights for each station
2. Add up the weights under the weight column and place the total at the bottom
3. Multiply each station weight by arm and enter results under the moment column
4. Add up the moments under the moment column and place total at bottom
5. Divide total moment by total weight to determine loaded center of gravity
6. Plot CG on graph below to ensure loading is within indicated envelope



AvSPORT



OF LOCK HAVEN

FORMS ON OUR WEBSITE:



Last Name: _____

First Name: _____ Middle Initial: _____

Address: _____

City: _____ State: _____ Zip: _____

E-Mail: _____

Pilot Certificate: _____

Most Recent BFR: _____

Medical Certification: _____

Cell Phone: _____ Home Phone: _____

Emergency Contact: _____

Notes: _____



AvSport of Lock Haven, 353 Proctor Street, Lock Haven PA 17745

AIRCRAFT RENTAL AGREEMENT

- All aircraft are to be operated in a safe, approved manner, in accordance with FAA regulations, our manufacturers operating procedures and design limitations. All student pilots and pilots (hereinafter referred to as pilots) shall adhere to the terms and conditions of AvSport of Lock Haven's insurance policy. AvSport requires a flight instructor, if you have fewer than five hours time logged in the same make and model of aircraft in the same make and model of aircraft within the last 60 days.
- In the event of an accident or incident that results in damage to the aircraft, the renter will be responsible for the cost of the damage. However, should AvSport or our insurance carrier find that pilot error or pilot negligence was the cause of the damage, the renter may be held responsible for all damage and/or related expenses incident to the accident. We strongly recommend that you discuss renter's insurance with your insurance representative to obtain.
- Under no circumstances should the renter permit any other person to operate the controls of any AvSport aircraft without the flight being approved by an AvSport flight instructor who is physically on the premises.
- All aircraft must be reserved in advance, with sufficient rental time to complete your flight. AvSport reserves the right to cancel a booking. AvSport reserves the right to charge 50% of the aircraft rate if the aircraft was reserved. (Cancellation: due to weather are not automatic. You must call to confirm.)
- Any renter renting AvSport aircraft for a full day or longer will be charged for a minimum of 3 hours of rental time. When a renter books a plane, he/she is expected to put at least 70% of booked time on the plane, or the difference. For example, a four hour rental will be charged at least 2.8 hours at the rental rate. AvSport reserves the right to cancel a booking.
- All aircraft and avionics malfunctions must be reported immediately. If distant from LHV, renters should call 1-570-494-2299 or 1-570-419-1229 to report the malfunction. Renters may also call the AvSport office at 748-5123 or 1-800-224-7511 and have the message forwarded to AvSport. The renter is responsible for the cost of the repairs in advance. Renter reimbursement, if necessary, will occur upon return of the aircraft with a bill number listed on invoice. All malfunctions, regardless of severity, must be written on the aircraft logbook.
- Renters will be reimbursed for fuel purchased at other airports at no higher than the rate/gallon fuel was purchased at. Fuel purchased at other airports at a higher rate/gallon than the rate/gallon fuel was purchased at, or reimbursement will not be approved.
- AvSport aircraft may only be landed on a taxiway or concrete surfaced runway that is 2500 feet in length or longer with prior approval of the AvSport Chief Flight Instructor.
- Flights between sunset and sunrise, or in IFR weather conditions, are not authorized for pilots operating AvSport aircraft and must in all cases be pre-approved by an AvSport instructor.
- Weight and balance sheets, aircraft registration and airworthiness certificates, and pilot operating certificates must be removed from the aircraft.
- The renter is responsible for all fees incurred during the rental (landing, parking, ramp, overnight tie-down) if the aircraft is left at a facility other than home base due to weather, the renter is responsible for the cost of the aircraft until it is retrieved. If AvSport must send a pilot to retrieve the aircraft, all costs will become the responsibility of the renter.

Renter Signature _____ Date: _____



AvSport of Lock Haven, 353 Proctor Street, Lock Haven PA 17745

LIABILITY WAIVER AND HOLD HARMLESS AGREEMENT

THERE ARE INHERENT RISKS IN PARTICIPATION IN RECREATIONAL AVIATION ACTIVITIES AND FLIGHT TRAINING OPERATORS AND PASSENGERS OF RECREATIONAL AIRCRAFT, IN PARTICIPATION, ACCEPT THE RISK INHERENT IN SUCH PARTICIPATION OF WHICH THE ORDINARY OR PRUDENT PERSON IS OR SHOULD BE AWARE. PILOTS AND PASSENGERS HAVE A DUTY TO EXERCISE GOOD JUDGEMENT AND ACT IN A RESPONSIBLE MANNER WHILE USING THE AIRCRAFT, AND TO OBEY ALL ORAL AND WRITTEN WARNINGS, BOTH PRIOR TO AND DURING THE USE OF THE AIRCRAFT.

To the best of my knowledge, I am in good physical condition and believe myself fully medically able to participate in flight training activities. I hold a valid driver's license issued by a US state, and have not been refused an FAA medical certificate, or had one revoked. I am fully aware of the risks and hazards connected with the participation in recreational aviation activities, including physical injury or even death, and hereby elect to voluntarily participate in such training, knowing that the associated physical activity may be hazardous to me and my property. I VOLUNTARILY ASSUME FULL RESPONSIBILITY FOR ANY RISKS OR LOSS, PROPERTY DAMAGE, OR PERSONAL INJURY, INCLUDING DEATH, that may be sustained by me, or loss or damage to property owned by me, as a result of participation in these activities.

I hereby RELEASE, WAIVE, DISCHARGE, AND COVENANT NOT TO SUE, AvSport of Lock Haven, its parent company Microcosm Consulting, the City of Lock Haven, Piper Memorial Airport, their officers, servants, agents, contractors, and employees (hereinafter referred to as RELEASEES) from any and all liability, claims, demands, actions, and causes of action whatsoever arising out of or related to any loss, damage, or injury, including death, that may be sustained by me, or to any property belonging to me, while participating in flight training and aviation activities, or while on or upon the premises where such activities are being conducted.

It is my expressed intent that this release and hold harmless agreement shall bind the members of my family and spouse, if I am alive, and my heirs, assigns and personal representative, if I am deceased, and shall be deemed a RELEASE, WAIVE, DISCHARGE, and CONVENTION TO SUE the above named RELEASEES. I hereby further agree that this Waiver of Liability and Hold Harmless Agreement shall be constructed in accordance with the law of the Commonwealth of Pennsylvania.

In signing this release, I acknowledge and represent that I HAVE READ THE FOREGOING Waiver of Liability and Hold Harmless Agreement, UNDERSTAND IT AND SIGN IT VOLUNTARILY as my own free act and deed; oral representations, statements or inducements, apart from the foregoing written agreements have been made, an EXECUTE THIS RELEASE FOR FULL, ADEQUATE AND COMPLETE CONSIDERATION FULLY INTENDING TO BE BOUND BY SAME.

Signature _____

Parent's Signature (if signer is under age 18) _____

Print Name _____

Print Parent's Name (if signer is under age 18) _____

Date _____

Date _____

Driver's License Number, State, Expiration _____

AvSPORT



OF LOCK HAVEN

WHERE DO I START?

- A TASTE OF FREEDOM™ -

**DISCOVERY FLIGHT WITH OUR
CHIEF FLIGHT INSTRUCTOR. AN
INEXPENSIVE WAY TO SAMPLE THE
SPORT AVIATION EXPERIENCE.**

OR,

AvSPORT



OF LOCK HAVEN

WHERE DO I START?

- GATEWAY TO THE SKY™ -

**A FULL INTRODUCTORY FLYING
LESSON WITH OUR CHIEF FLIGHT
INSTRUCTOR. YOU WILL OPERATE
THE CONTROLS, AND LOG YOUR
FIRST HOUR OF FLIGHT TRAINING.**

AvSPORT



OF LOCK HAVEN



Gateway to the Sky™ Gift Certificate

A Gift to:

From:

This signed certificate is good for one Introductory Flight Lesson with Prof. H. Paul Shuch, AvSport's Chief Flight Instructor, in our quality Light Sport Aircraft trainer. The bearer of this certificate will get to fly the plane at the Piper Memorial Airport, Lock Haven PA, and will receive a complimentary photograph and logbook (with the first lesson entered and signed). This certificate is valid for one year from the issue date below. Call or email to schedule your no-obligation lesson.

Signed:

Date Issued:



The Fine Print: Certain weight, height, and health restrictions apply. Persons weighing more than 200 pounds can be accommodated only by prior arrangement. We regret that our aircraft cannot safely carry passengers weighing in excess of 250 pounds. Gift Certificate recipients will be asked to sign our standard Liability Waiver form.

<http://AvSport.org>

(570) 748-3725

fly@AvSport.org



A Taste of Freedom™ Gift Certificate

A Gift to:

From:

This signed certificate is good for one Discovery Flight with Prof. H. Paul Shuch, AvSport's Chief Flight Instructor, in our quality Light Sport Aircraft trainer. The bearer of this certificate will fly out of Piper Memorial Airport, Lock Haven PA, will have a chance to manipulate the flight controls, and will receive a souvenir photograph of himself or herself in the cockpit. This certificate is valid for one year from the issue date below. Call or email to schedule your no-obligation introduction to sport aviation.

Signed:

Date Issued:



The Fine Print: Certain weight, height, and health restrictions apply. Persons weighing more than 200 pounds can be accommodated only by prior arrangement. We regret that our aircraft cannot safely carry passengers weighing in excess of 250 pounds. Gift Certificate recipients will be asked to sign our standard Liability Waiver form.

<http://AvSport.org>

(570) 748-3725

fly@AvSport.org

GIFT CERTIFICATES AVAILABLE

AvSPORT



OF LOCK HAVEN

WHAT DOES IT COST?

DISCOVERY FLIGHT \$49

INTRODUCTORY LESSON \$99

FROM ZERO TO SOLO: \$1999

SOLO TO LICENSE: \$1799

(WITH PREPAY DISCOUNT, AT FAA MINIMUM

FLIGHT HOURS. DOES NOT INCLUDE TAXES

OR TESTING FEES. YOUR MILEAGE MAY VARY.)

AvSPORT



OF LOCK HAVEN

HOW LONG DOES IT TAKE?

**AT THREE LESSONS A WEEK,
YOU CAN EXPECT TO SOLO IN
FOUR WEEKS, AND EARN YOUR
SPORT PILOT LICENSE IN AS
LITTLE AS THREE MONTHS!**

AvSPORT



OF LOCK HAVEN

WHEN CAN I START?

***NOW! CHECK OUR WEBSITE,
HTTP://AVSPORT.ORG, FOR
DATES OF OUR QUARTERLY
INTENSIVE FLIGHT TRAINING
COURSES.***

AvSPORT



OF LOCK HAVEN

MUSEUM

AIRCRAFT PA

-8283

9am - 4pm
Sunday 12



FIRST STUDENT

FIRST SOLO

AvSPORT



OF LOCK HAVEN

AvSPORT

OF LOCK HAVEN



H. Paul Shuch, Ph.D., CFII
Piper Memorial Airport
353 Proctor Street
Lock Haven PA
17745 USA

Chief Flight Instructor
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cell (570) 419-1229